

# Notice of Allowability

Application No.

10/056,049

Examiner

Seyed Azarian

Applicant(s)

SHARONI ET AL.

Art Unit

2624

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/24/2007 and telephone interview on August 20, 2007.
2. ☒ The allowed claim(s) is/are 1-6, 8, 10-13, 15-18 and 20-27 now renumbered as 1-23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **Response to Amendment**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/6/2007 has been entered.
2. Based on applicant's amendment, filed 7/24/2007, see page 7 through 13 of the remarks, also telephone interview filed on August 20, with respect to cancellation of claims 7, 9, 14 and 19, and amended claims 1, 8, 10, 16 and 18, have been fully considered and are persuasive, upon further consideration the rejection of 103(a), for claims 1-6, 8, 10-13, 15-18 and 20-27, are hereby withdrawn.

The claims 1-6, 8, 10-13, 15-18 and 20-27, now renumbered as 1-23 are allowed.

### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicants Attorney (Mr. Zeev Pearl, Reg No. 60234), on August 20, 2007, without traverse.

**The amended claims 1, 8, 10, 16 and 18 as follows:**

**Cancel claims 7, 14 and 19.**

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Claim 1. (Currently Amended) (Currently Amended) A system comprising:

two or more processing units, each coupled to a respective video or audio sensor, each of which receives video or audio data from said sensor and processes said video or audio data according to one or more content-analysis applications installed therein;

an application bank external to said processing units, said application bank comprising said content-analysis applications; and

a control unit having installed therein a set of post-alert action rules, the control unit coupled to said processing units and to said application bank, said control unit automatically, without user input, and dynamically instructs said application bank to install in real-time, after receiving an alert from one or more of said processing units, at least another one of said content-analysis applications into at least one of said processing units based on at least one of said post-alert action rules;

wherein said processing unit is able to notify said control unit when one of said applications installed in said processing unit detects a predefined condition associated with at least a portion of said audio or video data;

wherein said control unit is able to instruct one of said processing units to activate or deactivate one of said content-analysis applications already installed in said processing unit based on an alert received from said processing unit or another one of said processing units; and

providing to a client computer a real-time stream of video data, audio data or a combination thereof according to a predetermined time-based schedule.

Claim 8. (Currently Amended) A system comprising:

an application bank having one or more content-analysis applications;

a processing unit coupled to said application, bank and to a video sensor,  
the application bank being external to said processing unit, wherein said  
processing unit receives video data from said sensor, processes said data  
according at least one of said content-analysis applications installed therein, and  
sends an alert when a predefined condition associated with at least a portion of  
said data is detected; and

a control unit having installed therein a set of post-alert action rules, the  
control unit coupled to said processing unit and to said application bank, said  
control unit is to instruct automatically, without user input, and dynamically said  
application bank to install, in real-time after receiving the alert, another one of  
said content-analysis applications into said processing unit according to at least  
one of said post-alert action rules;

wherein said processing unit is able to notify  
said control unit when one of said applications installed in said processing unit  
detects a predefined condition associated with at least a portion of said audio or  
video data;

wherein said control unit is able to  
instruct one of said processing units to activate or deactivate one of said content-analysis

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applications already installed in said processing unit based on an alert received from said processing unit or another one of said processing units;

providing to a client computer a real-time stream of video data, audio data or a combination thereof according to a predetermined time-based schedule.

Claim 10. (Currently Amended) A method comprising:

storing predefined post-alert action rules in a control unit;

detecting a predefined condition associated with at least a portion of an audio or video data received from a video or audio sensor by processing the data at a processing unit coupled to the sensor according to one or more content-analysis applications;

sending an alert based on the detected predefined condition; and

automatically, without user input, and dynamically in real-time after receiving the alert, instructing to install another content-analysis application into a video or audio processing unit from an application bank external to said processing unit having content-analysis applications based on at least one of said predefined post-alert action rules;

wherein said processing unit is able to notify said control unit when one of said applications installed in said processing unit detects a predefined condition associated with at least a portion of said audio or video data;

wherein said control unit is able to instruct one of said processing units to activate or deactivate one of said content-analysis

applications already installed in said processing unit based on an alert received from said processing unit or another one of said processing units;

providing to a client computer a real-time stream of video data, audio data or a combination thereof according to a predetermined time-based schedule.

Claim 16. (Currently Amended) claim 16, line 1, delete -- claim 14 --, after phrase “ The method of ”, and line 1, insert --claim 1 -- after phrase “The method of ”.

Claim 18. (Currently Amended) A method comprising:

installing one or more content-analysis applications from an application bank into one or more video or audio processing units, the application bank being external to said processing units;

storing predefined post-alert action rules in a control unit;

processing input received from one or more video or audio sensors, each coupled to a respective video or audio processing unit according to at least one of said content-analysis applications;

detecting a predefined condition associated with at least one portion of said input;

sending a notification associated with said condition to a control unit; and

automatically, without user input, and dynamically in real-time after receiving the notification, instructing the application bank to install at least another, one of said content-analysis applications into at least one of said processing units based on at least one of said predefined post-alert action rules;

wherein said processing unit is able to notify  
said control unit when one of said applications installed in said processing unit  
detects a predefined condition associated with at least a portion of said audio or  
video data;

wherein said control unit is able to  
instruct one of said processing units to activate or deactivate one of said content-analysis  
applications already installed in said processing unit based on an alert received from said  
processing unit or another one of said processing units;

providing to a client computer a real-time stream of video data, audio  
data or a combination thereof according to a predetermined time-based schedule.

## **REASONS FOR ALLOWANCE**

4. The following is an examiner's statement of reasons for allowance.

This invention relates generally, is directed to various methods and systems for analysis and processing of video and audio signals from a plurality of sources in real-time or off-line. According to some embodiments of the present invention, analysis and processing application are dynamically installed in the processing units.

Based on applicant's amendment, claim 1 representing claims 8, 10 and 18, the closest prior art of record (Fernandez and Johnson) references teaches, stores one or more positional and relative movement as well as optical associated map data", for performing "real-time", historical and/or predictive monitoring and data processing of one or more remote or local object, but do not teach or suggest, among other things, " a control unit having installed therein a set of post-alert action rules, the control unit coupled to processing units and to application bank, control unit automatically, without user input, and dynamically instructs application bank to install in

real-time, after receiving an alert from one or more of processing units, at least another one of content-analysis applications into at least one of said processing units based on at least one of post-alert action rules; wherein processing unit is able to notify control unit when one of applications installed in processing unit detects a predefined condition associated with at least a portion of audio or video data, wherein control unit is able to instruct one of processing units to activate or deactivate one of said content-analysis applications already installed in processing unit based on an alert received from processing unit or another one of said processing units".

These key features in combination with the other features of the claimed invention are neither taught nor suggested by (Fernandez and Johnson) prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Contact Information**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seyed Azarian whose telephone number is (571) 272-7443. The examiner can normally be reached on Monday through Thursday from 6:00 a.m. to 7:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella, can be reached at (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR.



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Status information about the PAIR system, see [http:// pair-direct.uspto.gov](http://pair-direct.uspto.gov). Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

*Seyed Azarian*

*Patent Examiner*

*Group Art Unit 2624*

August 20, 2007

A handwritten signature in cursive script, reading "Seyed Azarian".